

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Min Wang

GENERAL INFORMATION:

Name:	CC Metals and Alloys, LLC
Address:	1542 North Main Street Calvert City, KY 42029
Date application received:	11/13/2006
SIC Code/SIC description:	3313, Electrometallurgical Products, Except Steel
Source ID:	21-157-00002
Source A. I. #:	2930
Activity ID:	APE20060002
Permit ID:	F-07-024

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
___ Administrative	<input type="checkbox"/> Title V
___ Minor	<input type="checkbox"/> Synthetic minor
___ Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Potential (tpy)	Allowable (tpy)
PM ₁₀	288.40	<99
PM	288.41	<99
Manganese	2.14	--
Chromium	0.19	--
Lead	0.09	--
Source wide HAPs	2.42	--

SOURCE DESCRIPTION:

CC Metals and Alloys, LLC (formerly SKW Alloys, Inc.) produces ferrosilicon and various ferroalloy specialty products. Primary emission units include three submerged electric arc furnaces with associated stirring stations, tapping operations; crushing and sizing operations; a stabilizer and drying operation; and material transfer and storage operations. The Standard Industrial Classification (SIC) Code for this source is 3313, *Electrometallurgical Products*.

This source is part of the iron and steel mill source category, pursuant to 401 KAR 52:001, Section 1(45)(b)4.e. However, this notwithstanding, this source belongs to a stationary source category, ferroalloy production, for which 40 CFR 60 Subpart Z, *Standards of Performance for Ferroalloy Production Facilities*, applies, pursuant to 401 KAR 52:001, Section 1(45)(b)4.aa. Therefore, fugitive emissions shall be considered in determining if the source is a major source.

The potential to emit (as defined in 401 KAR 52:001, Section 1 (56)) of particulate matter less than ten (10) microns (PM₁₀) is greater than major source thresholds. To preclude the applicability of 401 KAR 52:020, *Title V Permits*, the source has requested voluntary federally enforceable permit limits such that the potential emissions are below major source thresholds. Therefore, the source is subject to the provisions of 401 KAR 52:030, *Federally-Enforceable Permits for Nonmajor Sources*.

This permit is the initial issuance of the source's Conditional Major permit, for a permit application received November 13, 2006. A permit application for a Title V permit was originally received December 16, 1996, with additional information received February 10, 1997. An addendum was received February 5, 2002 for the manufacture of ferromanganese and silicomanganese. Since that time, CC Metals has determined that silicon metal, ferromanganese and silicomanganese will not be manufactured, and such products are not included in this approval.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

Marshall County is designated as attainment for all criteria pollutants. To preclude the applicability of 401 KAR 52:020, *Title V Permits*, total annual source-wide emissions of particulate matter (PM/PM₁₀) shall not exceed 99 tons per year on a consecutive 365 day basis.

Although the permit is conditioned to allow emissions of particulate matter (PM/PM10) in excess of 100 tons per year, pursuant to 401 KAR 59:010 and 401 KAR 61:020, the permittee voluntarily requested the federally enforceable PM/PM10 emissions limitation of less than or equal to 99 tons per year specified above. Accordingly, this approval is being issued as a conditional major operating permit, pursuant to 401 KAR 52:030.